

What is claimed is:

*Sub A1*

1. A golf club head, comprising:  
a ball hitting face which includes a central portion and a peripheral portion  
surrounding at least a part of said central portion,  
wherein said golf club head is made of a metal, and the hardness of said  
peripheral portion is lower than the hardness of said central portion.
  
2. A golf club head, comprising:  
a face member forming a ball hitting face, said ball hitting face including a  
central portion and a peripheral portion surrounding at least a part of said central portion,  
wherein said golf club head is manufactured by a method comprising the steps of:  
forming said face member from a raw material separately from other members  
used for said golf club head; and  
subsequently welding said other members to said face member at a periphery of  
said face member, and  
said golf club head is made of a metal, and the hardness of said peripheral portion  
is smaller than the hardness of said central portion.
  
3. A golf club head according to claim 1, wherein  
the width of said peripheral portion of said hitting face is in a range between  
about 5 and 20 mm, the width of said peripheral portion being determined by:  
measuring a hardness distribution of said hitting face from an arbitrary point A on  
the edge of said hitting face, passing through the center of said hitting face, to a point B on  
the opposite edge of said hitting face,

determining the hardness of said central portion by taking an average of the hardness measured in an area in the vicinity of the center of said hitting face where the difference in hardness in the area is in the range of  $\pm 5\%$ ;

determining the hardness of said peripheral portion in the vicinity of the point A by taking an average of the hardness measured in an area in the vicinity of the point A where the difference in hardness in the area is in the range of  $\pm 5\%$ ;

determining a point of measurement having a value of hardness closest to an mean value between the hardness of said central portion and the hardness of said peripheral portion; and

determining the width of said peripheral portion as a distance between the point A and the point of measurement.

4. A golf club head according to claim 2, wherein

the width of said peripheral portion of said hitting face is in the range between about 5 and 20 mm, the width of said peripheral portion being determined by:

measuring a hardness distribution of said hitting face from an arbitrary point A on the edge of said hitting face, passing through the center of said hitting face, to a point B on the opposite edge of said hitting face;

determining the hardness of said central portion by taking an average of the hardness measured in an area in the vicinity of the center of said hitting face where the difference in hardness in the area is in the range of  $\pm 5\%$ ;

determining the hardness of said peripheral portion in the vicinity of the point A by taking an average of the hardness measured in an area in the vicinity of the point A where the difference in hardness in the area is in the range of  $\pm 5\%$ ;

determining a point of measurement having a value of the hardness closest to an

mean value between the hardness of said central portion and the hardness of said peripheral portion; and

determining the width of said peripheral portion which is a distance between the point A and the point of measurement.

5. A golf club head according to claim 1, wherein

the difference in the hardness between said central portion and said peripheral portion is equal to or greater than 50 in terms of the Vickers hardness, the hardness of said central portion and of said peripheral portion being determined by:

measuring a hardness distribution of said hitting face from an arbitrary point A on the edge of said hitting face, passing through the center of said hitting face, to a point B on the opposite edge of said hitting face;

determining the hardness of said central portion by taking an average of the hardness measured in an area in the vicinity of the center of said hitting face where the difference in hardness in the area is in the range of  $\pm 5\%$ ; and

determining the hardness of said peripheral portion in the vicinity of the point A by taking an average of the hardness measured in an area in the vicinity of the point A where the difference in hardness in the area is in the range of  $\pm 5\%$ .

6. A golf club head according to claim 2, wherein

the difference in the hardness between said central portion and said peripheral portion is equal to or greater than 50 in terms of the Vickers hardness, the hardness of said central portion and of said peripheral portion being determined by:

measuring a hardness distribution of said hitting face from an arbitrary point A on the edge of said hitting face, passing through the center of said hitting face, to a point B on

the opposite edge of said hitting face;

determining the hardness of said central portion by taking an average of the hardness measured in an area in the vicinity of the center of said hitting face where the difference in hardness in the area is in the range of  $\pm 5\%$ ; and

determining the hardness of said peripheral portion in the vicinity of the point A by taking an average of the hardness measured in an area in the vicinity of the point A where the difference in hardness in the area is in the range of  $\pm 5\%$ .

7. A golf club head according to claim 3, wherein

the difference in the hardness between said central portion and said peripheral portion is equal to or greater than 50 in terms of the Vickers hardness, the hardness of said central portion and of said peripheral portion being determined by:

measuring a hardness distribution of said hitting face from an arbitrary point A on the edge of said hitting face, passing through the center of said hitting face, to a point B on the opposite edge of said hitting face;

determining the hardness of said central portion by taking an average of the hardness measured in an area in the vicinity of the center of said hitting face where the difference in hardness in the area is in the range of  $\pm 5\%$ ; and

determining the hardness of said peripheral portion in the vicinity of the point A by taking an average of the hardness measured in an area in the vicinity of the point A where the difference in hardness in the area is in the range of  $\pm 5\%$ .